

Title (en)

LOAD-LIFTING APPARATUS AND METHOD OF STORING ENERGY FOR THE SAME

Title (de)

LASTHUBVORRICHTUNG UND -VERFAHREN ZUM SPEICHERN VON ENERGIE DAFÜR

Title (fr)

APPAREIL DE LEVAGE DE CHARGE ET PROCÉDÉ DE STOCKAGE D'ÉNERGIE POUR CELUI-CI

Publication

**EP 2032493 A4 20100901 (EN)**

Application

**EP 07719969 A 20070613**

Priority

- CA 2007001053 W 20070613
- US 80461406 P 20060613

Abstract (en)

[origin: WO2007143841A1] The present invention is directed to the design of a load-lifting apparatus comprising one or more prime power sources, one or more energy storage systems and a means of regenerative braking. Regenerative energy is recovered when the load-lifting apparatus lowers its load. The elements of the prime power sources, energy storage devices and electrical components may be distributed to provide stability for the load-lifting apparatus. The general power architecture and energy recovery method can be applied to cranes, rubber-tired gantry cranes, overhead cranes, mobile cranes, ship-to-shore cranes, container cranes, rail-mounted gantry cranes, straddle carrier cranes and elevators. In such an architecture, the energy storage system helps alleviate the power rating requirement of the prime power source with respect to the peak power requirement for lifting a load.

IPC 8 full level

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Citation (search report)

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- [XI] JP H11285165 A 19991015 - SUMITOMO HEAVY INDUSTRIES
- [XI] DE 102004010988 A1 20050929 - NOELL MOBILE SYSTEMS & CRANES [DE]
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- See references of WO 2007143841A1

Citation (examination)

JP 2003246586 A 20030902 - HITACHI PLANT KENSETSU SOFT KK, et al

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DOCDB simple family (publication)

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DOCDB simple family (application)

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